

MUKONO DISTRICT EXAMINATIONS BOARD

PRIMARY SEVEN MOCK EXAMINATION 2024

MATHEMATICS

Time Allowed: 2 hrs 30 minutes

EMIS No.	Personal No.

Index No. :

Candidate's Name:

Candidate's Signature :

EMIS No.:

School Name :

District Name :

Read the following instructions carefully.

1. The paper has two Sections A and B.
2. All workings for both sections A and B must be shown in the spaces provided.
3. Section A has 20 short questions (40 marks).
4. Section B has 12 questions (60 marks)
5. All working must be done using a blue or ball point pen or ink.
6. Diagrams should be drawn in pencils.
7. **No calculators** are allowed in the examination room.
8. Unnecessary **alteration** of work may lead to loss of mark.
9. Any hand writing that cannot easily be read may lead to **loss of marks**.
10. Do not fill in the boxes indicated;
"FOR EXAMINER' USE ONLY" and those inside the question paper.

FOR EXAMINERS USE ONLY

QN. NO.	MARKS SCORED	INITIAL
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

SECTION A: (40 marks)

1. Workout :
$$\begin{array}{r} 9 \ 6 \\ - 3 \ 2 \\ \hline \end{array}$$

2. Write 2024 in words.

3. Evaluate: $9^{\circ} + 10^{\circ} - Y^{\circ}$

4. Fill in the missing subsets of set K if

$$K = \{r, a, t\}$$

$$\{ \quad \}, \{r, a\}, \{a, t\}, \underline{\hspace{2cm}},$$

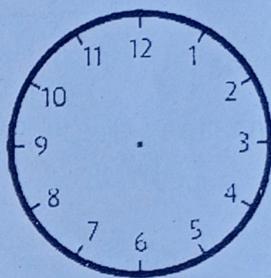
$$\{r, a, t\}, \underline{\hspace{2cm}}, \{a\}, \{r\}$$

5. Find the next number in the sequence.

$$2, 3, 5, 7, \underline{\hspace{2cm}}$$

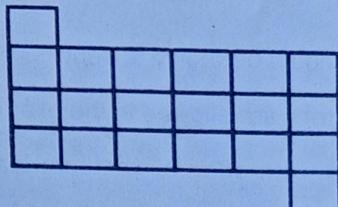
6. Simplify: $7 - 3$

7. Show "Twenty-five minutes to 3" on the 12 hour clock below.



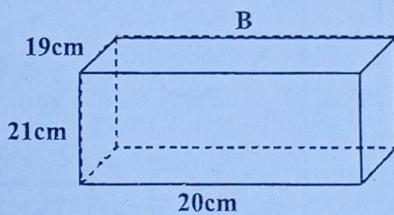
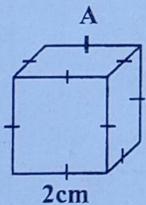
8. The mean of 4, 5, 0, x and 7 is 5. Find the value of x.

9. Shade: 3:4 of the diagram below.



- a) Juma was coming from USA with 250 dollars. How much did he have in Uganda shillings. (2marks)
- b) Martha has to send her son's tuition to Britain. She has sh. 2,078, 400 to change. Find the amount of Pound sterling she will get? (2marks)
- c) If one had 1600Ksh, how much would that be in US dollars? (2marks)

28. Antono, was given a task of packing small cubes (boxes) of type A into his big box B.



a) How many small boxes of type A will he pack in the box of type B? (2marks)

b) Calculate the amount of space left after packing? (3marks)

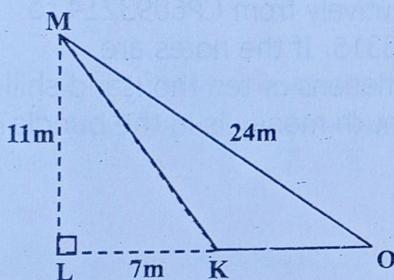
29. (a) With the help of a ruler, pencil and a pair of compasses only, construct a rhombus ABCD where AB=5cm and angle DAB=60°. (3marks)

b) Measure i) Length of diagonal AC (1mark) ii) Angle ABC. (1mark)

10. Achieng is 18 years older than Babirye. Their total age is 48 years. How old is Achieng?

13. Given that $b = ak$, $a = 3$, and $k = 4$. Find the value of $b(2a-k)$

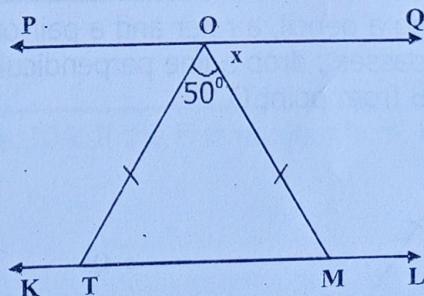
11. Calculate the area of triangle MKO in the figure below if line $LO=15m$, $LK = 7m$ and $MO = 24m$



14. The circumference of a circle is 88dm . Find the radius of the circle. (Use $\pi = \frac{22}{7}$)

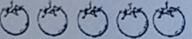
12. The Highest Common Factors (HCF) of two numbers is 10 and their Lowest Common Multiple (LCM) is 120. If one of the numbers is 40. Find the other numbers.

15. In the figure below, line PQ is parallel to line KL and OTM is an Isosceles triangle.

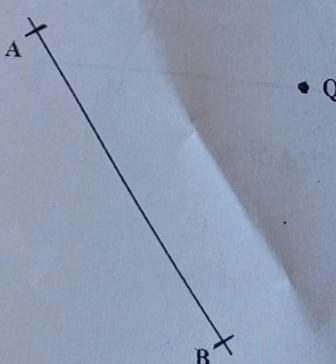


Find the size of x .

16. Five girls can weed a garden in 8 hours. How long will two girls take to weed the garden working at the same rate?

17. Given that  represents 8 tomatoes. How many tomatoes are represented by: 

18. Using a pencil, a ruler and a pair of compasses , drop a line perpendicular to \overline{AB} from point Q.



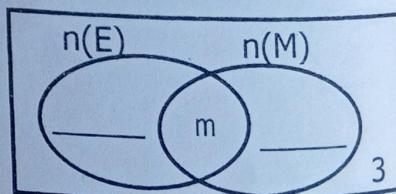
19. Solve for y : $3^y \times 3^2 = 27$

20. Bank notes in a bundle are numbered consecutively from CP6093214 to Cp6093315. If the notes are denominations of ten thousand shilling , how much money is in the bundle?

SECTION B: (60 MARKS)

21. In a class 15 pupils like English (E) only, m like both Math (M) and English (E) . $(18+m)$ like Maths but not English while 3 like neither of the two subjects.
a) Complete the venn diagram below.

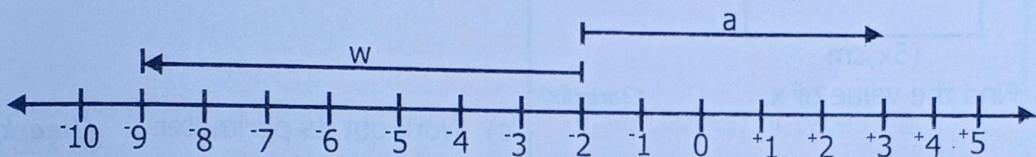
(2marks)



- ii) If 40 pupils like one subject only. Find the value of m. (2marks)

- iii) Find a chance of picking at random a pupil who likes Maths. (2marks)

22. Study the number line below and answer questions that follow.



a) Write down the integers represented by the arrows. (2marks)

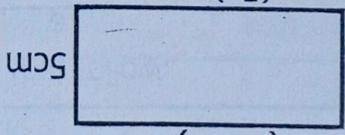
i) w _____ ii) a _____

b) Draw an arrow 'q' to complete the sentence on the number line above. (1mark)

c) Work out the additive inverse of the integer represented by arrow marked 'q'. (1mark)

23. The sum of 4 consecutive multiples of 4 is 104. If the first number is m. What are these numbers? (4marks)

24. If $\frac{1}{6}$ of the spectators in a football field like Mirinda, $\frac{1}{4}$ of the remainder like Pepsi while the remaining 30 spectators like Coca Cola. How many spectators were in the field? (5 marks)

25. a) The figure below is a rectangle.
b) Calculate its area. (2 marks)
- Study it and answer questions that follow.
- 
- a) Find the value of x . (2 marks)
- c) Work out its perimeter. (1 mark)

26. The sum of the values in the diagram below are the same Horizontally, Vertically, and Diagonally.
Find the value of each of the letters. (5 marks)
- | | | | |
|----|----|----|----|
| 7 | m | 29 | 1 |
| y | 13 | 11 | 23 |
| 9 | 21 | k | u |
| 31 | p | 5 | 25 |
27. The table below shows the exchange rate of a Forex bureau.

Currency	Buying	Selling
1 US dollar	3800	4000
1 Pound sterling	4500	4800
1 Kedvén schilling	35	